### Miami-Dade County, Florida

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES

BOARD AND CODE ADMINISTRATION DIVISON

PRODUCT CONTROL SECTION

Laboratory Certificate



11805 S.W. 26 Street-Room 208 Miami, Florida 33175-2474 T (786) 315-2590 Fax (786) 315-2599

This certifies that RCMA Americas, Inc.-Synthetic Division located at 1507 Boettler Road, Uniontown, OH 44685 is an approved Testing Laboratory in accordance with Miami-Dade County Department of Regulatory and Economic Resources and Protocol 7.45301-94, and is Certified to perform the following tests:

TAS103 See attached qualifications sheet.	ASTM D227	ASTM D4799
TAS104 See attached qualifications sheet	ASTM D249	ASTM D4897
TASI10 See attached qualifications sheet	ASTM D412	ASTM D4977
TAS114 Appendix H (Section 4 only)	ASTM D449	ASTM D4990
TAS114 Appendix I	ASTM D450 (Except 6.1.3 & 6.1.8)	ASTM D5601
TA\$131	ASTM D751	ASTM D5602
TAS132 See attached qualifications sheet	ASTM D1864	ASTM D6083
TAS138	ASTM D2521	ASTM D6152
TAS139	ASTM D2626	ASTM D6162
TAS140	ASTM D2822	ASTM D6163
TAS141 (Excludes Section 7.6)	ASTM D2829	ASTM D6164
TAS142	ASTM D2939 (Except 18&23-29)	ASTM D6222
TAS143	ASTM D3409	ASTM D6223
ASTM C719	ASTM D3617	ASTM D6380
ASTM C793	ASTM D3909	ASTM D6509
ASTM C836	ASTM D4022 (Sections 7.1, 7.2, 7.3,	ASTM D6511
ASTM C957	7.4 & 7.5)	ASTM D6694
ASTM C1305	ASTM D4402	CAN/CGSB-37.50
ASTM D224	ASTM D4586	A2LA Lab Acreditation, per Certificate No.
ASTM D225	ASTM D4601	2711.01
ASTM D226		

Results of the above mentioned test shall be properly submitted to the Miami-Dade County Department of Regulatory and Economic Resources per 7.45301-94, along with all other documentation required for the approval of products. Approved engineer(s) for this laboratory:

John F. Warmus, P.E., John Easley Nevin, P.E.

This Certification and Registration Approved: November 25, 2015

This Certification and Registration Expires: March 07, 2017

**Certification No.**: <u>15-1026.01</u> Revises: 13-1205.03

Helmy A. Makar, P.E., M.S.

Product Control Section Supervisor

**Product Control Section** 

Americo Segura, M.S.

Quality Assurance Unit Supervisor

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Product Control Section

The Miami-Dade County Department of Regulatory and Economic Resources reserves the right to remove this certification for non-compliance with rules and regulations as set by Protocol 7.45301-94.

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### **UNDERLAYMENTS:**

### TASI03 Test Procedure of Self Adhered Underlayments for Use in Discontinuous Roof Systems

Section 14: Accelerated Aging
Section 15: Cyclic Elongation
Section 16: Water Vapor Transmission
Section 17: Compound Stability
Section 18: Puncture Resistance
Section 19: Tile Slippage
Section 20: Crack Cycling
Section 21: Peel Resistance
Section 22: Granule Adhesion

### TASI04 Test Procedure for Nail-On Underlayments for Use in Discontinuous Roof Systems

Section 5: Conditioning	Section 12: Ultraviolet Resistance
Section 6: Thickness	Section 13: Accelerated Aging
Section 8: Tear Resistance	Section 14: Cyclic Elongation
Section 9: Breaking Strength and Elongation	Section 15: Water Vapor Transmission
Section 10: Water Absorption	Section 17: Tile Slippage Resistance
Section 11: Low Temperature Flexibility	Section 18: Granule Adhesion

### PHYSICAL PROPERTY REQUIREMENTS:

### TASI 10 Physical Property Requirements of Roof Membranes, Insulation Materials, Membrane Coatings and Other Roofing Components

Section 2:	ASPHALT BUILT-UP ROOF SYSTEM	<u>IS</u>
	ASTM D224	ASTM D3019
	ASTM D226	ASTM D3409
	ASTM D228	<b>ASTM D3747</b>
	ASTM D41 (Excludes Section 5.1.1)	ASTM D3909
	ASTM D249	ASTM D4022
	ASTM D312	<b>ASTM D4586</b>
	ASTM D371	ASTM D4897
	ASTM D2178	ASTM D4601
	ASTM D2626	ASTM D5147

RCMA Americas, Inc. File No. 15-1026.01 Page 2 of 2

Section 3:

COAL-TAR PITCH BUILT-UP ROOF SYSTEMS

ASTM D4990 ASTM D227 ASTM D450

ASTM D43 (Excludes Section 5.1.5)

Section 4:

SINGLE-PLY ROOF SYSTEM ASSEMBLIES

ASTM D4434 ASTM D4637 ASTM D5019

Section 5:

LIQUID POLYETHYLENE ROOF SYSTEM ASSEMBLIES

ASTM D3468 (Excludes Section 9.8)

Section 6:

SPRAY-APPLIED POLYURETHANE FOAM ROOF ASSEMBLIES

ASTM C355

ASTM D1623

**ASTM D2126** 

ASTM E96

Section 7:

**COATINGS** 

ASTM D1227

**ASTM D4479** 

**ASTM D2939** 

**ASTM D6083** 

Section 8:

**ROOFING INSULATION** 

ASTM D1621 ASTM C203 ASTM E96 ASTM D2126 ASTM C209

Section 10:

NON-RIGID, DISCONTINUOUS (SHINGLE) ROOF ASSEMBLIES

ASTM D3462 (Excludes Section 8.1.3 & 8.1.4 ASTM D3018 (Excludes Section 9.1.2 & 9.1.3

TAS132 Requirements For Testing and Approval of Sealants Used in Roofing

Section

PHYSICAL PROPERTIES

**7.1**:

**ASTM D792** 

ASTM D412

ASTM D624

ASTM C794

ASTM C661

Section 7.2 PERFORMANCE

All sections



### SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

RCMA AMERICAS, INC.
Synthetic Division
1507 Boettler Rd.
Uniontown, OH 44685

Mr. Warne T. Hall Jr. Phone: 330 896 5900

### CONSTRUCTION MATERIALS

Valid To: August 31, 2016

Certificate Number: 2711.01

In recognition of the successful completion of the A2LA evaluation process (including an assessment of the organization's compliance with A2LA's EPA ENERGY STAR® Accreditation Program¹ requirements), accreditation is granted to this laboratory to perform the following tests:

Test Method(s):	Test Description:
ASTM C719	Adhesion and Cohesion of Elastomeric Joint Sealants under Cyclic Movement
ASTM C793	Accelerated Weathering on Elastomeric Joint Sealants
ASTM C794	Adhesion-in-Peel of Elastomeric Joint Sealants
ASTM C1305	Crack Bridging Ability of Liquid-Applied Waterproofing Membrane
ASTM C1306	Hydrostatic Pressure Resistance of a Liquid-Applied Waterproofing Membrane
ASTM D4	Bitumen Content
ASTM D5	Penetration of Bituminous Materials
ASTM D36	Softening Point of Bitumen (Ring and Ball Apparatus)
ASTM D92	Flash Point Cleveland Open Cup
ASTM D93	Flash Point by Pensky-Martens Closed Cup Tester
ASTM D95	Water in Petroleum Products & Bituminous Materials by
	Distillation
ASTM D113	Ductility of Bituminous Materials
ASTM D146/D146M	Sampling and Testing Bitumen-Saturated Felts and Woven Fabrics for Roofing and Waterproofing
ASTM D228	Sampling, Testing, and Analysis of Asphalt Roll Roofing, Cap
	Sheets, and Shingles Used in Roofing and Waterproofing
ASTM D402	Distillation of Cut Back Bituminous Products
ASTM D412	Vulcanized Rubber and Thermoplastic Elastomers-Tension
ASTM D413	Test Methods for Rubber Property—Adhesion to Flexible Substrate
ASTM D471	Rubber Property – Effect of Liquids
ASTM D577 ASTM D522 (except Method A)	Mandrel Bend Test of Attached Organic Coatings
ASTM D522 (except Method A)  ASTM D562 (except Method A)	Viscosity Using a Stormer-Type Viscometer
ASTM D570	Water Absorption of Plastics
ASTM D570 ASTM D573	Rubber-Deterioration in an Air Oven

(A2LA Cert. No. 2711.01) Revised 10/06/2015

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Test Method(s):	Test Description:
ASTM D624	Tear Strength of Conventional Vulcanized Rubber &
	Thermoplastic Elastomers
ASTM D751 (except sections 4.3,	Standard Test Methods for Coated Fabrics
18-21, 36-53, 59-63, 65,71, 80-83	
and 89-98)	
ASTM D903	Peel or Stripping Strength of Adhesive Bonds
ASTM D1204	Linear Dimensional Changes of Non-rigid Thermoplastic Sheeting or Film at Elevated Temperatures
ASTM D1475	Density of Liquid Coatings, Inks, and Related Products
ASTM D1644	Nonvolatile Content of Varnishes
ASTM D1653	Water Vapor Transmission of Organic Coating Films
ASTM D1876	Peel Resistance of Adhesives (T-Peel Test)
ASTM E1980	Practice for Calculating Solar Reflectance Index of Horizontal and
•	Low-Sloped Opaque Surfaces
ASTM D2042	Solubility of Asphalt Materials in Trichloroethylene
ASTM D2136	Test Method for Coated Fabrics—Low-Temperature Bend Test
ASTM D2196, Method A	Rheological Properties of Non-Newtonian Materials by Rotational
	(Brookfield type) Viscometer
ASTM D2240	Rubber Property Durometer Hardness
(Type A and Type OO)	
ASTM D2370	Tensile Properties of Organic Coatings
ASTM D2523	Load Strain Properties of Roofing Membrane (Tensile)
ASTM D2697	Volume of Nonvolatile Matter in Clear or Pigmented Coatings
ASTM D2829 (except section 4)	Sampling and Analysis of Built Up Roof Aggregate Analysis
ASTM D2939	Emulsified Bitumen Used as Protective Coatings
(except sections 18 and 23-28)	
ASTM D3462	Asphalt Shingles made from Glass Felt and Surfaced with Mineral
(except D3161 and E108)	Granules
ASTM D3909	Asphalt Roll Roofing (Glass Felt) with Granules
ASTM D4073	Tensile Tear Test of Asphalt Roof Membrane
ASTM D4541	Pull-Off Strength of Coatings Using Portable Adhesion Testers
ASTM D4601	Asphalt Coated Glass Fiber Base Sheet
ASTM D4798	Accelerated Weathering for Bituminous Materials Xenon Arc
ASTM D4799	Accelerated Weathering for Bituminous Materials QUV
ASTM D4977	Granule Adhesion to Mineral Surfaced Roofing by Abrasion
ASTM D5147	Sampling and Testing Modified Bituminous Sheet Material
ASTM D5329	Sealant and Fillers, Hot-Applied, for Joints and Cracks in Asphalt and Portland Cement Pavements
ASTM D5385	Hydrostatic Pressure Resistance of Waterproofing Membranes
ASTM D5602 (except sections	Static Puncture Resistance
10.2.4, 10.2.5, and 10.2.6)	
ASTM D5635	Dynamic Puncture Resistance
(except Section 11.1.5)	
ASTM D5801	Toughness and Tenacity of Bituminous Materials
ASTM D5869	Dark Oven Heat Exposure of Roofing and Waterproofing Materials
ASTM D6297	Asphaltic Plug Joints for Bridges
ASTM E96	Water Vapor Transmission of Materials
ASTM E2178	Air Permeance of Building Materials

Test Method(s):	Test Description:
ICC-ES AC-48	Roof Underlayment for Use in Severe Climate
ICC-ES AC-165	Asphalt Coated Glass Fiber Mat Roof Underlayment
CAN/CGGSB-37.50-M89 (except Sections 4.9 and 4.11)	Hot Applied Rubberized Asphalt
ASTM G154	Fluorescent Light Apparatus for UV Exposure of Nonmetallic Materials
ASTM G155	Xenon Arc (for Exposure of Non-Metallic Materials)

### **EPA Energy Star Testing:**

Roof Products Program Requirements	Roof Products (excluding Maintenance of Solar Reflectance)
ASTM C1371 <sup>2</sup>	Determination of Emittance of Materials Near Room Temperature using Portable Emissometers
ASTM C1549 <sup>2</sup>	Determination of Solar Reflectance Near Ambient Temperature using a Portable Solar Reflectometer

<sup>&</sup>lt;sup>1</sup> A2LA provides accreditation to the U.S. EPA's Conditions and Criteria for Recognition of Laboratories for the ENERGY STAR Program by verifying an organization's compliance to A2LA document R222 - Specific Requirements - EPA ENERGY STAR Accreditation Program and to the related test methods listed above.

Accreditation by A2LA does not infer Recognition by the EPA for ENERGY STAR testing. Please verify this organization's recognition status by using the EPA's searchable database, located at http://www.energystar.gov/index.cfm?fuseaction=recognized\_bodies\_list.show\_RCB\_search\_form

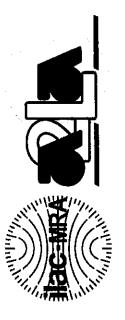
The laboratory is accredited for the test methods listed above. The accredited test methods are used in determining compliance with the following material specifications listed below; however, the inclusion of these material specifications on this Scope do not confer laboratory accreditation to the material specifications. Inclusion of these material specifications on this Scope also does not confer accreditation for every method embedded within the specification. Only the methods listed above on this Scope are accredited.

Material specification (s):	Specification Description:
ASTM C836	Specification for Liquid Applied Waterproofing Membrane
ASTM C957	High-Solids Content, Cold Liquid-Applied Elastomeric Waterproof Membrane
ASTM D226	Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing
ASTM D312	Asphalt Used in Roofing
ASTM D449	Asphalt Used in Damp Proofing and Waterproofing
ASTM D1970	Self-Adhered Polymer Modified Bituminous Sheet
ASTM D2521 (except Section 4.1.7)	Asphalt Used in Canal, Ditch, and Pond Linings
ASTM D2626	Asphalt Saturated and Coated Organic Felt Base
ASTM D4434, D4434M	PVC Sheet Roofing

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<sup>&</sup>lt;sup>2</sup> This laboratory meets A2LA R104 – General Requirements: Accreditation of Field Testing and Field Calibration Laboratories for these tests.

Material specification (s):	Specification Description:
ASTM D4586	Asphalt Roof Cement Asbestos Free
(except Section 20 of ASTM	•
D6511)	
ASTM D4637	EPDM Sheet Used in Single-Ply Roof Membrane
ASTM D4811	Non-Vulcanized Rubber Sheet
ASTM D4869	Asphalt Saturate Organic Felt Used in Underlayment
(except Sections 8.1, 8.2.2, 8.2.3,	
8.2.4, 8.3, and ASTM D1922,	
D6136, F1087)	
ASTM D4897	Asphalt Coated Glass Fiber Venting Base Sheet
ASTM D6083 (except ASTM G21	Liquid Applied Acrylic Coating Used in Roofing Testing for
referenced in Table 2)	Elastomeric Roof Coatings
ASTM D6152	SEBS Modified Mopping Asphalt
ASTM D6162	SBS Modified Bituminous Sheet Materials Using Reinforcements
ASTM D6163	SBS Modified Bituminous Sheet Material Glass
ASTM D6164	SBS Modified Bituminous Sheet Material Polyester
ASTM D6222 (except Section 9.4)	APP Modified Bituminous Sheet Material Polyester
ASTM D6223 (except Section 9)	APP Modified Bituminous Sheet Material Polyester/Glass
ASTM D6380 (except Section 9.2)	Asphalt Roll Roofing Organic Felt
ASTM D6509, D6509M	APP Modified Bituminous Sheet Material Glass
(except section 8.3)	
ASTM D6511 (except Section 20)	Solvent Bearing Bituminous Compounds
ASTM D6690	Joint and Crack Sealants, Hot-Applied, for Concrete and Asphalt
	Pavements
ASTM D6694	Liquid-Applied Silicone Coating Used in Spray Polyurethane
	Foam Roof Systems
ASTM D6878	Thermoplastic Polyolefin Based Sheet Roofing
ICC-ES AC-29	Fluid Applied Waterproofing
ICC-ES AC-188	Acceptance Criteria for Roof Underlayment



## **Accredited Laboratory**

A2LA has accredited

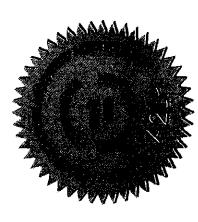
# RCMA AMERICAS, INC., SYNTHETIC DIVISION

Uniontown, OH

for technical competence in the field of

### Construction Materials Testing

General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).



Presented this 12th day of August 2014.

President & CEO  $\nu$ For the Accreditation Council Certificate Number 2711.01 Valid to August 31, 2016
Revised October 6, 2015

For the tests to which this accreditation applies, please refer to the laboratory's Construction Materials Scope of Accreditation.